

WEST SYSTEM® brand 105 Resin is a low viscosity, solvent free liquid epoxy resin. Formulated for use with WEST SYSTEM® hardeners, it can be cured in a wide temperature range to form a high-strength solid with excellent moisture resistance.

WEST SYSTEM® 205 Fast Hardener is a medium viscosity epoxy curing agent. It is used, in the majority of situations, at lower temperatures to produce a moderately fast cure that develops its physical properties quickly at room temperature, and is capable of curing down to a temperature as low as 10°C.

WEST SYSTEM® 206 Slow Hardener is a low-viscosity epoxy curing agent for use when extended working and cure time is needed, or to provide adequate working time at higher temperatures.

MIX RATIO

1 part hardener (205 and 206) to 5 parts resin by volume and weight.

WEST SYSTEM® 207 Special Coating Hardener has been specially developed for coating applications where an exceptionally clear, moisture resistant, natural wood finish is desired.

WEST SYSTEM® 209 Super Slow / Tropical Hardener is formulated for general coating and bonding applications in extremely warm and/or humid conditions, or when extended working time is desired at room temperature.

MIX RATIO

1 part hardener (207 and 209) to 3 parts resin by volume / 3.5 parts resin by weight

Note:

Care should be taken when dispensing and mixing. Do not attempt to control the cure time by altering the hardener ratio. Contact ATL Composites for specific information.

TYPICAL CURED RESIN MECHANICAL PROPERTIES

Test Method*- neat cast sample	105/205	105/206	105/207	105/209
Tensile Strength ASTM D-638	53.50 MPa	50.47 MPa	51.50 MPa	49.09 MPa
Tensile Elongation ASTM D-638	10.7%	9%	7%	13.0%
Tensile Modulus ASTM D-638	2.97 GPa	3.17 GPa	3.31 GPa	2.90 GPa
Flexural Strength ASTM D-790	96.53 MPa	81.43 MPa	98.60 MPa	87.91 MPa
Flexural Modulus ASTM D-790	3.23 MPa	3.10 MPa	3.38 MPa	3.03 MPa
Annular Shear Fatigue @100,000 cycles	41.59 kN	41.37 kN	42.26 kN	
Izod Impact notched (m-N/m) ASTM D-256	28.82	28.82	35.76	40.03

* Typical values; not to be construed as specification. Room temperature for two weeks.

The test results shown were conducted using procedures dictated by ASTM (American Society for Testing and Materials) test methods. These ASTM test procedures are very specific and help foster objective and consistent test data.

STORAGE

WEST SYSTEM[®] R105 resin and hardeners will keep for 2 years, if kept in original containers at room temperature (15°C to 32°C), and out of direct sunlight. Containers should be tightly sealed to prevent moisture absorption.

HEALTH AND SAFETY

WEST SYSTEM[®] R105 resin and hardeners have moderate sensitizing potential, and should be kept out of the eyes and off the skin.

- Use with good ventilation and adequate safety equipment including impervious gloves and safety glasses.
- If skin contact occurs, remove contaminated clothing immediately, and wash the affected area thoroughly with ATL's 845 hand cleaner and water, avoiding the use of solvents except in the case of massive contamination.
- If eye contact occurs, immediately flush with running water for at least 15 (fifteen) minutes and seek medical advice.
- If swallowed:

Resins - DO NOT induce vomiting, and contact a doctor or the Poisons Information Centre.

Hardeners - DO NOT induce vomiting, give plenty of milk or water and contact a doctor or the Poisons Information Centre.

NOTE Our products are intended for sale to industrial and commercial customers. We request that customers inspect and test our products before use and satisfy themselves as to contents and suitability. Nothing herein shall constitute a warranty, express or implied, including any warranty or merchantability or fitness, nor is protection from law or patent to be inferred. All patent rights are reserved. The exclusive remedy for all proven claims is replacement of our materials and in no event shall we be liable for special or consequential damages. 27/05/04